

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (currently amended) A data recording/reproduction apparatus ~~provided with~~ having a plurality of input/output means for inputting and outputting data, said data including video data and audio data and adapted to record data ~~including video data and audio data~~ input through said input/output means on a plurality of sections pieces of a recording medium non-linearly accessible in allocated time slots and adapted to reproduce and output through said input/output means any of the data recorded on said recording medium ~~including video data and audio data~~, said apparatus comprising:

 a recording/reproduction means for recording material data input through said input/output means on said recording medium and reproducing and outputting through said input/output means any of said material data from said recording medium;

 a first editing means for

 generating a first piece of editing information based on the selection of editing points including

 a starting point and an ending point ~~of~~ associated with a predetermined storage area storing a first material data, and

 a starting point and an ending point ~~of~~ associated with a predetermined storage area storing a second material data to be inserted in said first material data, and

an the actual insertion of said second material data in said first material data;
a video effect processing means for processing the video data in the vicinity of
each of said editing points for achieving predetermined specific video effects;

a video-effect-processed data extracting means for extracting the data processed
for the video effects by said video effect processing means;

a recording control means for controlling said recording/reproduction means so as
to record said video-effect-processed data extracted by said video-effect-processed data
extracting means on said recording medium;

a second editing means for
inserting said video-effect-processed data recorded by said recording/reproduction
means into said first material data, and

generating a second piece of editing information used for inserting said second
material data as modified by the an insertion of said video-effect-processed data into said first
material data;

a virtual file generating means for generating at least three files, said at least three
files comprising:

a first virtual file describing the a first recording area including at least one
continuous sub-area of said first material data on said recording medium on the basis of
the first piece of editing information generated by said first editing means,

a second virtual file describing the a second recording area including at least
one continuous sub-area of said second material data on said recording medium on the
basis of the second piece of editing information generated by said second piece of editing
information, and

a third virtual file describing ~~the~~a third recording area including at least one continuous sub-area of said video-effect-processed data on said recording medium; and a reproduction control means for control said recording/reproduction means so as to reproduce the first material data, the second material data and the video-effect-processed data recorded on said recording medium on the basis of the first virtual file, the second virtual file and the third virtual file generated by said virtual file generating means.

2. (original) The data recording/reproduction apparatus according to claim 1, wherein the non-linearly accessible recording medium comprises a plurality of hard discs.

3. (currently amended) A data recording/reproduction method adapted to use a plurality of input/output means for inputting and outputting data, said data including video data and audio data, ~~so as to record~~ said data ~~being~~ including ~~video data and audio data~~ input through said input/output means on a plurality of sections pieces ~~of a~~ recording medium non-linearly accessible in allocated time slots and reproduce and output through said input/output means ~~any~~ ~~of the data recorded on said recording medium~~ ~~including video data and audio data~~, said method comprising steps of:

selecting editing points, said editing points including a starting point and an ending point of a first predetermined storage area wherein ~~storing~~ a first material data is stored, and a starting point and an ending point of a second predetermined storage area wherein ~~storing~~ a second material data to be inserted in said first material data is stored;

processing the video data in the vicinity of each of said editing points for predetermined specific video effects;

extracting the video-effect-processed data processed for the video effects;

recording said extracted video-effect-processed data extracted on said recording medium;

generating at least three files including a first virtual file describing the recording area of said first material data on said recording medium, a second virtual file describing the recording area of said second material data on said recording medium and a third virtual file describing the recording area of said video-effect-processed data on said recording medium; and

reproducing the first material data, the second material data and the video-effect-processed data recorded on said recording medium on the basis of the first virtual file, the second virtual file and the third virtual file generated by said virtual file generating means step.

4. (original) The data recording/reproduction method according to claim 3, wherein the non-linearly accessible recording medium comprises a plurality of hard discs.